TECHNICAL INFORMATION

flow-captor CooLGUARD Type 4100

The safe sensing solution for industrial cooling systems.

The flow-captor **CooLGUARD** utilizes the weber pioneered calorimetric principle and the All-In-One monitoring of flow and temperature of the coolant

CooLGUARD is especially designed, for all types of cooling systems, as a reliable alternative to failure prone mechanical flow switches.

- Compact electronic unit with no moving parts
- No adjustment or calibration needed
- Maintenance free
- Fail safe normally open switch
- Easy to Install

Technical Data ***Depending on the pipe size, sensor immersion depth & orientation, large deviations from below listed ranges occur.

Type	4100
Medium	Water based liquid
Sensor Data	
Low Flow Set Point	.4 m/s (1.2 fps) (water related) typical
Hi Temp Set Point	50° C (122° F) or 70° C (158° F), other settings possible on OEM demand
Medium temperature	-20° C (-4° F) to + 80° C (176° F)
Response time	<30 seconds
Repeatability	< .05 m/s
Hysteresis	<30% of setpoint value
Pressure	10 bar (150 PSI)
Mechanical Data	
Protection class	IP 67 (NEMA6)
Housing Material	Stainless Steel 1.4301 (303)
Thread	G ½ A (BSP) or ½ " –14 NPT (NPT)
Connection	M12 male socket, 4 pin Cable Sold Separately
Electrical Data	
Operating voltage	18 to 30 V DC
Switching current	δ 200 mA
Power Consumption	4 W max.
Initial Operation	after 15 seconds
Electrical Output	PNP n.o. (switch closed with flow)

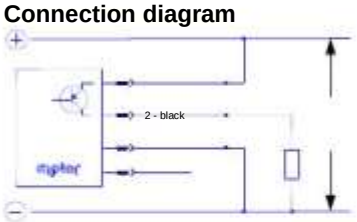
Part Number Key:

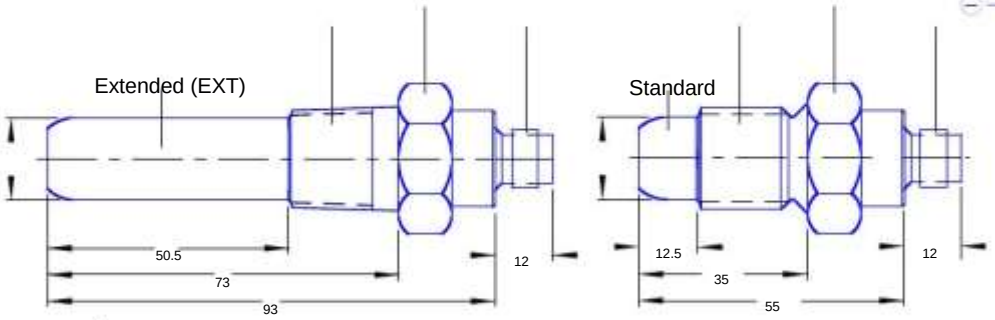
4100-X-Y-Z A

X= Temp Setpoint (°C), code: **50nc** or **70nc**
Y= Flow Set Point (m/s), code: **.3no**
Z= Sensor Head Length, code: none or **EXT**
A= Thread code: **BSP** or **NPT**

Example: 4100-70nc-.3no-EXT BSP

Connection diagram





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Member of the captor Group

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